

Fuel Flow Meter AIC - 5000



- Accuracy better than 1% over the full range (For accuracy better than 0.5% please see our NEMO family)
- Diesel consumption flow meter for engines up to 735 KW (1000 HP)
- Stationary fuel flow meter



The AIC-5000 flow meter has been designed for an easy mounting for stationary testing applications with an wall plug 110/230 VAC power supply.

Made for pulsating liquids, the true consumption of the vehicle engine is measured by switching the return flow from the tank, directly to the fuel supply line.

Applications:

- Engine test stands
- Dynamic chassis dynamometers



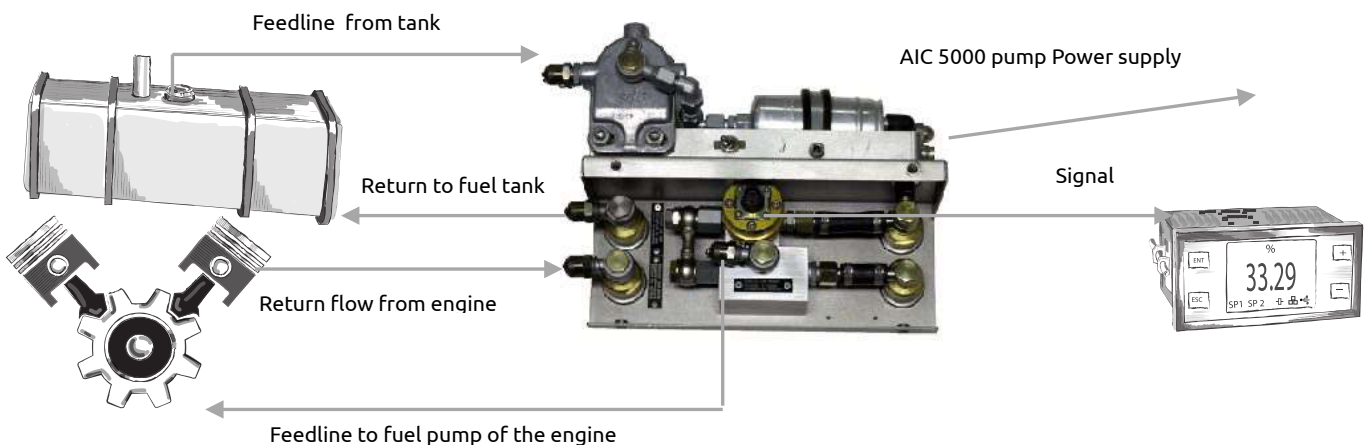
Media that can be measured:

- Diesel
- Bio-fuel

Features and benefits:

- Reliable instantaneous consumption display and flow totalisation
- Average fuel consumption visualisation with 3 digits after coma
- Instrument protected via in-line fuel filter
- Mechanical meter of proven technology since more than 30 years
- Standard power supply with external on/off- switch
- Units are factory calibrated and ready to measure accurately right after installation.

System Setup



Technical data

AIC 5004 / 5008

General Data

Manufacturer	AIC SYSTEMS AG
Product designation	AIC 5004
	AIC 5008

Mechanical Data

Dimensions (L x l x p)	AIC 5004 / 5008
	340 x 180 x 270 mm / 13.4 x 7 x 10.6" (incl.filter)
Weights	AIC 5004
	ca. 9.6 kg / 21.1 lb (incl.filter)
	AIC 5008
	ca. 10.1 kg / 22.3 lb (incl.filter)

Materials

Flow meter - sensor	Brass, aluminium
O - rings	Viton™
Connectors	Chrome Steel M 16x1.5
Casing	Stainless steel

Flowmeter

Measurement principle	Volumetric, oscillating piston, with microprocessor controlled pulse emitter
Measuring range	AIC 5004: 1 to 120 l/h
	AIC 5008: 4 to 240 l/h
Max. permissible error of actual value	AIC 5004: $\pm 1\%$ 1- 2 l/h $\pm 2.5\%$ AIC 5008: $\pm 1\%$ 4-5 l/h $\pm 2\%$
Repeatability	Better than 0.2 % of reading
Admissible pressure	-1 to 6 bar
Mounting position	Horizontal
Operating temperature	-30.....90 C°
Ingress protection	Sensor, IP 67

Electrical connection

Power supply	8-28 VDC
Pulse signal	NPN open -collector; square 0.7 ms pulse width

Ordering structure

Model Type

Designation

Flow Meter

5004

for engines up to 700 HP or 120 l/h

5008

for engines up to 1000 HP or 240 l/h max.

Options

Bio fuel option

Fuel meter internal Bio-Fuel piping option

Accessories

Connector kits

Connector kit s1460.0 + 12.5m fuel hose

Signal cables

Signal cable 10m (from AIC 800, 900, 4000, 5000 to BC 3329)

Signal cable 5 or 10 m with free wire

BC 3329

BC 3329 LOG

Bord Computer BC 3329 **LOG** for 20-28V DC No USB stick incl

BC 3329 Display

Bord Computer BC 3329 **Display** for 20-28V DC

All informations are subject to change.



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